AZM800 Generation 6 MX Apartment Zone Module

Features
- Compatible with MX Addressable Loop on VIGILANT MX1 and MX4428 panels
- MX Loop Powered
- Built-in MX short-circuit isolator
- Switching and supervision of local 100V speaker line spur (1 or 2 branch)
- Connection and supervision of local conventional heat/smoke/MCP detector circuit
- Integral/Remote smoke alarm silence/hush button
- Programmable control relay output (unsupervised) configurable NC or NO

Specifications
- Loop Voltage: 20V to 40Vdc polarity conscious
- Quiescent Current: 4mA (typ.)
- Alarm Current: 17mA (max., LED on)
- Local Circuit Resistance: 10 Ohm (max.)
- ELD Resistor: 9k1/18k Ohm
- Local 100V spur: 10W, 56k Ohm ELD
- Dimensions (HWD): 118 x 75 x 34 mm
- Weight: 160g
- Colour: White
- Ambient Temperature: -10°C to +45°C
- Relative Humidity: Up to 95% (non-condensing)
- FPANZ Listed: VF/653 (FP0959) VF/654 (FP0962)

Typical Applications
With the ability to utilise conventional and/or MX addressable detectors in the same apartment complex, the AZM800 provides a very flexible fire alarm solution. A centralised 100V line tone generator is controlled globally by the fire panel (2 tones) and selectively switched by each AZM800 to individual apartments (and common areas) as required. Loudspeakers in common areas must be controlled by a dedicated AZM800 (or a separate tone generator) so these speakers are activated by a general Evacuation tone and not by the Alert tone for a local smoke alarm in an apartment.

Integral Line Isolation
The AZM800 operates on the robust VIGILANT MX Digital loop. An integral short-circuit line isolator automatically provides protection against short-circuit cable faults thus reducing the need for additional line isolator modules.

Address Setting
The AZM800 is shipped with a default (invalid) address of 255 and must be set to the correct loop address using the 850EMT or MX Service Tool.

Number of Apartments per loop
With no addressable detectors and just conventional smoke/heat detectors and MCPs connected to AZM800 circuits, approximately 160 areas could be covered on a single MX1 loop – each area AZM800 uses 1 MX address (250 maximum addresses per loop).

FP0959 Contents: AZM800 module c/w white cover plate; fasteners for flush box; blank white switchplate cover; 4x coloured cable ties: Blk, Blu, Grn, Yel, 4-way terminal blocks; 2x 9k1 EOLRs; 1x 18k EOLR – low current detector circuit; 1x 56k EOLR – local loudspeaker circuit; Install Instructions LT0459.

FP0962 Contents: AZM-RHU module c/w white cover plate; fasteners for flush box.
Mounting Requirements

The AZM800 mounts on a standard single electrical flush box. Since each AZM800 will have at least 5 and up to 8 cables connected to it, the flush box must have enough room for these cables or have an open back. Use of a suitable flush box is imperative for a successful installation.

Compatible Devices

The AZM800 is compatible with the types and quantities of detectors listed in the table below. Detector quantities depend on the AZM800 detector configuration. The total standby current of all detectors connected to an AZM800 must not exceed 700μA for the Normal detector circuit setting or 150μA for the Low Current detector circuit setting.

<table>
<thead>
<tr>
<th>Brand</th>
<th>Detector Type</th>
<th>Alarm Type</th>
<th>Standby Current (μA)</th>
<th>Max. Number (Normal setting)</th>
<th>Max. Number (Low Current setting)</th>
</tr>
</thead>
<tbody>
<tr>
<td>System Sensor</td>
<td>2351E</td>
<td>Smoke/Heat *</td>
<td>65</td>
<td>10</td>
<td>2</td>
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<tr>
<td></td>
<td>2351TEM</td>
<td>Smoke/Heat *</td>
<td>80</td>
<td>8</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>4351E</td>
<td>Heat *</td>
<td>90</td>
<td>8</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>5351E</td>
<td>Heat *</td>
<td>80</td>
<td>8</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>1151</td>
<td>Smoke</td>
<td>40</td>
<td>16</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>2151</td>
<td>Smoke</td>
<td>45</td>
<td>16</td>
<td>3</td>
</tr>
<tr>
<td>Vigilant</td>
<td>614CH</td>
<td>CO/Heat *</td>
<td>70</td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>614P</td>
<td>Smoke</td>
<td>60</td>
<td>11</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>614T</td>
<td>Heat *</td>
<td>85</td>
<td>8</td>
<td>1</td>
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<tr>
<td>Vigilant</td>
<td>Indi-VIGIL Mk2 Heat Detector</td>
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<td>35</td>
<td>8</td>
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<tr>
<td></td>
<td>1841 Indicating Manual Call Point</td>
<td>Heat/MCP</td>
<td>38</td>
<td>35</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>PA1022 Clean Contact Adaptor</td>
<td>Heat/MCP</td>
<td>38</td>
<td>35</td>
<td>8</td>
</tr>
</tbody>
</table>

* these heat detectors will not produce a brigade alarm unless the AZM800 is specially configured, in which case, any smoke or heat alarm on that AZM800 will produce a latching brigade alarm. Consider for ceiling spaces or common areas.